

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

- Utility Patent Specification -

Inventor:

**Roberto L. Montero**

Invention:

**BOTTLE WITH INTEGRALLY FORMED OPENER**

Prepared by:

**JOSEPH N. BREAUX, (Reg. 36,462)**

Patent & Trademark Attorney  
10630 N. Oak Hills Pkwy. Ste. A  
Baton Rouge, LA 70810

---

(Telephone: 225/769-8500)  
(FAX: 225/768-7394)

---

(P/A File ID: 00-012283)  
[Printed: January 11, 2000]

[Attorney's Docket ID: 00-012283]

Description

**BOTTLE WITH INTEGRALLY FORMED OPENER**

**Technical Field**

The present invention relates to beverage bottles with twist off bottle caps and more particularly to a bottle with integrally formed opener that includes a twist off bottle cap, a molded glass bottle, and a peel off sanitary cover member; the twist off bottle cap having a number of evenly spaced grippable teeth extending outwardly from an internally threaded center cover portion; the molded glass bottle having a neck portion and a bottom portion; the neck portion terminating in a externally threaded neck member defining a dispensing opening and companionately threaded to engage and hold the twist off bottle cap in sealing relation to the dispensing opening of the externally threaded neck member; the bottom portion having a cap teeth engaging bottle cavity formed into a bottom surface thereof sized to receiving a twist off bottle cap therein and having a number of grippable teeth engaging protrusions that are sized and shaped to fit between evenly spaced grippable teeth of the twist off bottle cap; the peel off sanitary cover member being adhesively secured to the bottom surface of the bottom portion such that the cap teeth engaging bottle cavity is

sealingly covered; the peel off sanitary cover member having a grip tab extending from a side edge thereof.

### **Background Art**

Many individuals find it difficult to twist off the twist off cap of many beverage bottles. It would be a benefit, therefore, to have a beverage bottle with a twist off cap that included a cap twisting structure molded into a bottom bottle surface thereof sized and shaped to gripping hold the twist off cap of another identical bottle. Because the cap twisting structure is molded into the bottom surface of the bottle where it can become contaminated while sitting on a table, in an ice chest or the like, it would also be a benefit to have a peel off cover member positioned over the cap twisting structure to protect it from contamination until it is used.

### **15 General Summary Discussion of Invention**

It is thus an object of the invention to provide a bottle with integrally formed opener that includes a twist off bottle cap, a molded glass bottle, and a peel off sanitary cover member; the twist off bottle cap having a number of evenly spaced grippable teeth extending outwardly from an internally threaded center cover portion; the molded glass bottle having a neck portion and a bottom portion; the neck portion terminating in a externally threaded neck

member defining a dispensing opening and companionately threaded to engage and hold the twist off bottle cap in sealing relation to the dispensing opening of the externally threaded neck member; the bottom portion having a cap teeth engaging bottle cavity formed  
5 into a bottom surface thereof sized to receiving a twist off bottle cap therein and having a number of grippable teeth engaging protrusions that are sized and shaped to fit between evenly spaced grippable teeth of the twist off bottle cap; the peel off sanitary cover member being adhesively secured to the bottom surface of the  
10 bottom portion such that the cap teeth engaging bottle cavity is sealingly covered; the peel off sanitary cover member having a grip tab extending from a side edge thereof.

Accordingly, a bottle with integrally formed opener is provided. The bottle with integrally formed opener includes a  
15 twist off bottle cap, a molded glass bottle, and a peel off sanitary cover member; the twist off bottle cap having a number of evenly spaced grippable teeth extending outwardly from an internally threaded center cover portion; the molded glass bottle having a neck portion and a bottom portion; the neck portion  
20 terminating in a externally threaded neck member defining a dispensing opening and companionately threaded to engage and hold the twist off bottle cap in sealing relation to the dispensing opening of the externally threaded neck member; the bottom portion

having a cap teeth engaging bottle cavity formed into a bottom surface thereof sized to receiving a twist off bottle cap therein and having a number of grippable teeth engaging protrusions that are sized and shaped to fit between evenly spaced grippable teeth 5 of the twist off bottle cap; the peel off sanitary cover member being adhesively secured to the bottom surface of the bottom portion such that the cap teeth engaging bottle cavity is sealingly covered; the peel off sanitary cover member having a grip tab extending from a side edge thereof.

10 **Brief Description of Drawings**

For a further understanding of the nature and objects of the present invention, reference should be made to the following detailed description, taken in conjunction with the accompanying drawings, in which like elements are given the same or analogous 15 reference numbers and wherein:

**Figure 1** is a perspective view of an exemplary embodiment of the bottle with integrally formed opener showing the twist off bottle cap, the molded glass bottle, and the peel off sanitary cover member; the twist off bottle cap having a number of evenly 20 spaced grippable teeth extending outwardly from an internally threaded center cover portion; the molded glass bottle having a neck portion and a bottom portion; the neck portion terminating in

a externally threaded neck member defining a dispensing opening and companionately threaded to engage and hold the twist off bottle cap in sealing relation to the dispensing opening of the externally threaded neck member; the bottom portion having a cap teeth 5 engaging bottle cavity formed into a bottom surface thereof sized to receiving a twist off bottle cap therein and having a number of grippable teeth engaging protrusions that are sized and shaped to fit between evenly spaced grippable teeth of the twist off bottle cap; the peel off sanitary cover member being adhesively secured to 10 the bottom surface of the bottom portion such that the cap teeth engaging bottle cavity is sealingly covered; the peel off sanitary cover member having a grip tab extending from a side edge thereof.

**Figure 2** is a bottom plan view showing the peel off sanitary cover member adhesively secured to the bottom surface of the bottom portion such that the cap teeth engaging bottle cavity is sealingly covered.

**Figure 3** is a bottom plan view showing the cap teeth engaging bottle cavity with the peel off sanitary cover member peeled away.

#### **Exemplary Mode for Carrying Out the Invention**

20 Figures 1-3 show various aspects of an exemplary embodiment of the bottle with integrally formed opener of the present invention generally designated 10. Bottle with integrally formed opener 10

includes a twist off bottle cap, generally designated 12; a molded glass bottle, generally designated 14; and a peel off sanitary cover member, generally designated 16.

Twist off bottle cap 12 has a number of evenly spaced 5 grippable teeth 18 extending outwardly from an internally threaded center cover portion 20. Molded glass bottle 14 has a neck portion 22 and a bottom portion 24. Neck portion 22 terminates in an externally threaded neck member 28 defining a dispensing opening 30 and has companionate threads 32 to engage and hold twist off bottle 10 cap 12 in sealing relation to dispensing opening 30.

Bottom portion 24 has a cap teeth engaging bottle cavity 36 formed into a bottom surface 38 thereof sized to receiving a twist off bottle cap 12 of another identical bottle 10 therein. Cap teeth engaging bottle cavity 36 also has a number of grippable teeth 15 engaging protrusions 40 that are sized and shaped to fit between evenly spaced grippable teeth 18 of twist off bottle cap 12.

Peel off sanitary cover member 16 is formed from moisture impermeable material and is adhesively secured to bottom surface 38 of bottom portion 24 such that cap teeth engaging bottle cavity 36 20 is sealingly covered. In use, peel off sanitary cover member 16 is removed by gripping and pulling on a grip tab 44 that extends from a side edge 46 thereof. Sanitary cover member 16 keeps cap teeth engaging bottle cavity 36 protected from contaminants on

surfaces such as table tops and the like prior to use to remove a twist off cap 12.

It can be seen from the preceding description that a bottle with integrally formed opener has been provided.~~that includes~~

^

5 It is noted that the embodiment of the bottle with integrally formed opener described herein in detail for exemplary purposes is of course subject to many different variations in structure, design, application and methodology. Because many varying and different embodiments may be made within the scope of the inventive  
10 concept(s) herein taught, and because many modifications may be made in the embodiment herein detailed in accordance with the descriptive requirements of the law, it is to be understood that the details herein are to be interpreted as illustrative and not in a limiting sense.